Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Original) A user controlled device, comprising:

a body, movable into a plurality of positions of a three-dimensional space; and

a MEMS acceleration sensor coupled to the body and configured to detect 3D movements of said device and send control signals correlated to said positions to an electrical appliance.

2. (Original) A device according to claim 1 wherein said body is in a form selected between computer mouse, joystick, gamepad, and PDA.

3. (Currently Amended) A device according to claim 1 wherein said body ~~issupported~~ is supported so as to be tiltable around two axes.

4. (Original) A device according to claim 3 wherein said body 2 is mouse-shaped and is supported by one of the following: rounded base, at least one spring, yieldable balls, or elastically supported balls.

5. (Currently Amended) A device according to claim 1 wherein the body is a housing accommodating said MEMS acceleration sensor and fixed to an article to be worn by ~~a disabled person~~the user.

6. (Currently Amended) A device according to claim 5 wherein said article is configured to be borne by ~~a~~ the user's head.

7. (Currently Amended) A device according to claim 6 wherein said article is selected between a hairband ~~or~~ and eyeglasses.

8. (Original) A device according to claim 1 wherein said MEMS acceleration sensor comprises at least a two-axis accelerometer or two one-axis accelerometers.

9. (Original) A device according claim 1 wherein said MEMS acceleration sensor generates position signals, the device further comprising a microcontroller for generating said control signals from said position signals.

10. (Original) A device according to claim 9, further comprising transmission means for connecting said microcontroller to said electrical appliance, said transmission means including a wire transmissive medium and a communication port.

11. (Original) A device according to claim 9, further comprising transmission means for connecting said microcontroller to said electrical appliance, said transmission means including an RF communication port for allowing wireless communication with said electrical appliance.

12. (Original) A device according to claim 9 wherein said microcontroller generates a first control signal for displacing a screen pointer along a first direction upon detection of tilting of said device around a first axis and a second control signal for displacing said screen pointer along a second direction upon detection of tilting of said device around a second axis.

13. (Currently Amended) A device according to claim 9 wherein said microcontroller ~~22~~ comprises means for detecting activation of predetermined functions upon detecting variations of said position signals greater than first preset thresholds.

14. (Original) A device according to claim 13 wherein said functions include clicking functions; continuous clicking; and continuous clicking release.

15. (Original) A device according to claim 13 wherein said microcontroller generates said control signals only if said variations are higher than second preset thresholds, and are lower than said first preset thresholds.

16. (Original) A method for generating control signals correlated to positions of a user controlled device, comprising:

moving the user controlled device into one of a plurality of positions of a three-dimensional space;

sending corresponding control signals to an electrical appliance; and

detecting 3D movements of said device through a MEMS acceleration sensor.

17. (Currently Amended) A method according to claim 16~~, further comprising~~ wherein the detecting step comprises detecting tilting movements of a body accommodating said MEMS acceleration sensor around two axes.

18. (Original) A method according to claim 16 wherein said MEMS acceleration sensor generates position signals corresponding to movements of said device along respective directions, and wherein said position signals are processed to generate said control signals.

19. (Original) A method according to claim 18, further comprising comparing said position signals with respective first thresholds and generating said control signals upon detecting that said position signals exceed said respective first thresholds.

20. (Original) A method according to claim 18 wherein said control signals comprise displacing signals for displacing a screen pointer along two directions.

21. (Original) A method according to claim 18, further comprising comparing said position signals with respective second thresholds, greater than said first thresholds, and generating function activation signals upon detecting that said position signals exceed said respective second thresholds.

22. (Original) A method according claim 21 wherein said function activation signals comprise clicking functions, continuous clicking, and continuous clicking release.

23. (Original) A device, comprising:

a body;

a MEMS sensor coupled to the body, the MEMS sensor configured to produce position signals corresponding to movement of the body; and

means for converting the position signals of the MEMS sensor to control signals suitable for controlling position of a pointer on a computer screen.

24. (Original) The device of claim 23 wherein the MEMS sensor is configured to detect movements of the body along first and second axes.

25. (Original) The device of claim 23 wherein the MEMS sensor is configured to detect movements of the body around first and second axes.

26. (Original) The device of claim 23 wherein the means for converting includes means for:

producing a first control signal suitable for moving the pointer in a first direction in response to movement of the body in a corresponding first direction, and

producing a second control signal suitable for moving the pointer in a second direction in response to movement of the body in a corresponding second direction.

27. (Original) The device of claim 26 wherein the means for converting produces the first or second control signal only if the movement of the body in the respective corresponding direction exceeds a first selected threshold.

28. (Original) The device of claim 27 wherein the means for converting includes means for producing function signals if the movement of the body in the respective corresponding direction exceeds a second threshold.

29. (Previously Presented) The device of claim 28 wherein the function signals include a signal suitable for initiating a click function, a continuous click function, and a continuous click release function.

30. (Previously Presented) A method, comprising:

employing a MEMS sensor to detect movement of a body in a three-dimensional space;

producing movement signals corresponding to the movement of the body; and

producing control signals corresponding to the movement signals, suitable for moving a pointer on a computer screen.

31. (Previously Presented) The method of claim 30 wherein the producing control signals step includes ignoring movement signals that do not exceed a first selected threshold.

32. (Previously Presented) The method of claim 31, further comprising producing function signals corresponding to movement signals that exceed a second threshold.

33. (Previously Presented) The method of claim 30 wherein the movement signals includes a first movement signal corresponding to a movement of the body in a first direction and a second movement signal corresponding to a movement of the body in a second

direction, and wherein the control signals includes a first control signal corresponding to the first movement signal and a second control signal corresponding to a second control signal.

34. (Previously Presented) The method of claim 33 wherein the first control signal is suitable for moving the pointer in a first pointer direction and the second control signal is suitable for moving the pointer in a second pointer direction.

35. (Previously Presented) The method of claim 30, further comprising:
coupling the body to a user's head; and
moving the body by moving the user's head.

36. (Previously Presented) A system, comprising:
a computer screen;
a CPU coupled to the computer screen;
a pointing device coupled to the CPU;
a MEMS sensor coupled to the pointing device, the MEMS sensor configured to produce position signals corresponding to movement of the pointing device; and
a microprocessor coupled to the MEMS sensor configured to convert the position signals of the MEMS sensor to control signals suitable for controlling position of a pointer on the computer screen.

37. (New) The system of claim 36 wherein the MEMS sensor is configured to produce position signals corresponding to movement of the pointing device around first and second mutually perpendicular axes.

38. (New) The system of claim 36 wherein the microprocessor is configured to produce a function signal when movement of the pointing device exceeds a threshold.

39. (New) The system of claim 38 wherein the function signal is a click signal.

40. (New) The system of claim 38 wherein the threshold is a movement speed threshold.

41. (New) The system of claim 38 wherein the threshold is a movement amplitude threshold.

42. (New) A device comprising:

a body;

a sensor coupled to the body and configured to produce a first signal corresponding to rotation of the body around a first axis; and

a circuit configured to produce a first function command when the first signal indicates rotation of the body exceeds a threshold.

43. (New) The device of claim 42 wherein the first function command is a mouse click command.

44. (New) The device of claim 42 wherein the circuit is configured to produce the first function command when the first signal indicates rotation of the body in a first direction exceeding the threshold, and to produce a second function command when the first signal indicates rotation of the body in a second direction exceeding the threshold.

45. (New) The device of claim 44 wherein the first function command is a left mouse click command and the second function command is a right mouse click command.

46. (New) The device of claim 42 wherein the threshold is a rotation speed threshold.

47. (New) The device of claim 42 wherein the circuit is further configured to produce a cursor movement command in a first direction, corresponding to a value of the first signal.

48. (New) The device of claim 47 wherein the circuit is configured to produce the cursor movement command when the first signal indicates rotation of the body exceeding a second threshold.

49. (New) The device of claim 48 wherein the second threshold is a rotation amplitude threshold.

50. (New) The device of claim 49 wherein the first and second thresholds are selectable by a user of the device.

51. (New) The device of claim 42 wherein the sensor is further configured to produce a second signal corresponding to rotation of the body around a second axis perpendicular to the first axis, and the circuit is further configured to produce a second function command when the second signal indicates rotation of the body exceeding a second threshold.

52. (New) The device of claim 51 wherein the sensor is further configured to produce a third signal corresponding to movement of the body along a third axis perpendicular to the first and second axes, and the circuit is further configured to produce a third command when the third signal indicates movement of the body.

53. (New) The device of claim 42 wherein the sensor is a micro-electro-mechanical type sensor.